IZVEŠTAJ O STATUSU IRITEL UREĐAJA U “INFRASTRUKTURI ŽELEZNICE SRBIJE”, Decembar 2024.

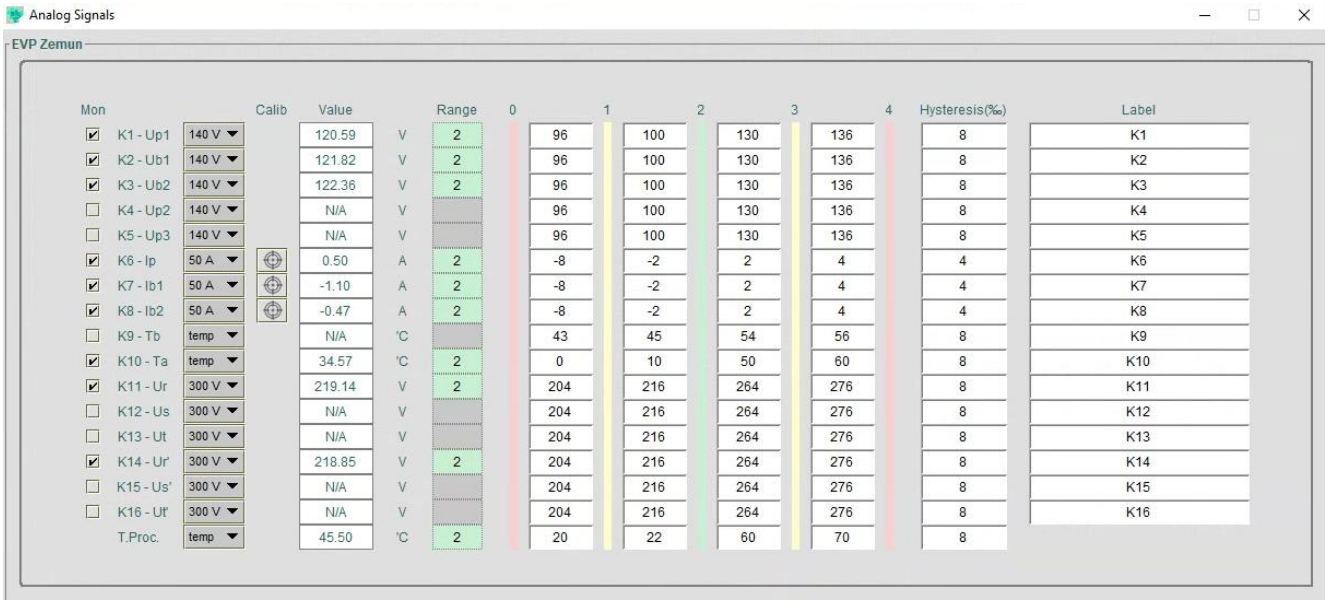
IRITEL DNU24

Statusi uređaja

Lokacija	ID uređaja	IP adresa/maska	Gateway	Serijski broj	Verzija softvera	Status uređaja
EVP Zemun	DNU24#1	172.26.9.200/24	172.26.9.1	061	1.42	**operativan**
TSPn Batajnica	DNU24#2	172.26.16.200/24	172.26.16.1	045	1.42	**operativan**
TSP Stara Pazova	DNU24#3	172.26.19.200/24	172.26.19.1	038	1.42	**operativan**
EVP Inđija (TSP)	DNU24#4	172.26.21.200/24	172.26.21.1	206	1.42	nedostupan
PSN Beška (TSP)	DNU24#5	172.26.23.200/24	172.26.23.1	139	1.42	nedostupan

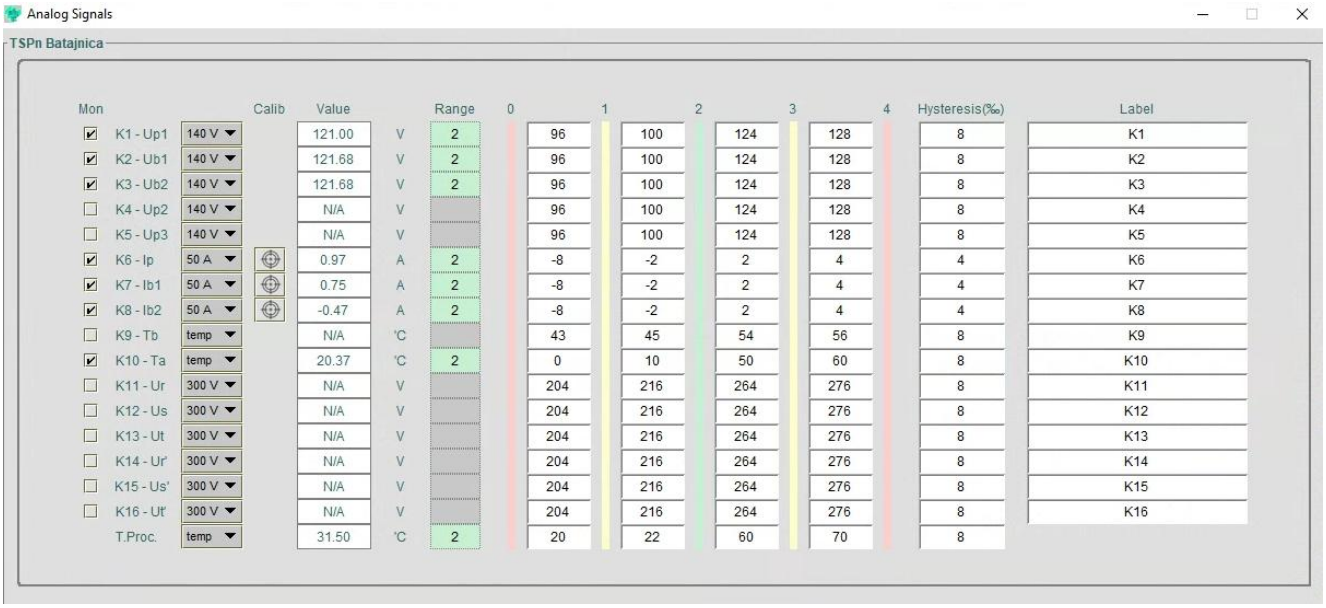
Očitana merenja operativnih uređaja (14.01.2025.)

EVP Zemun



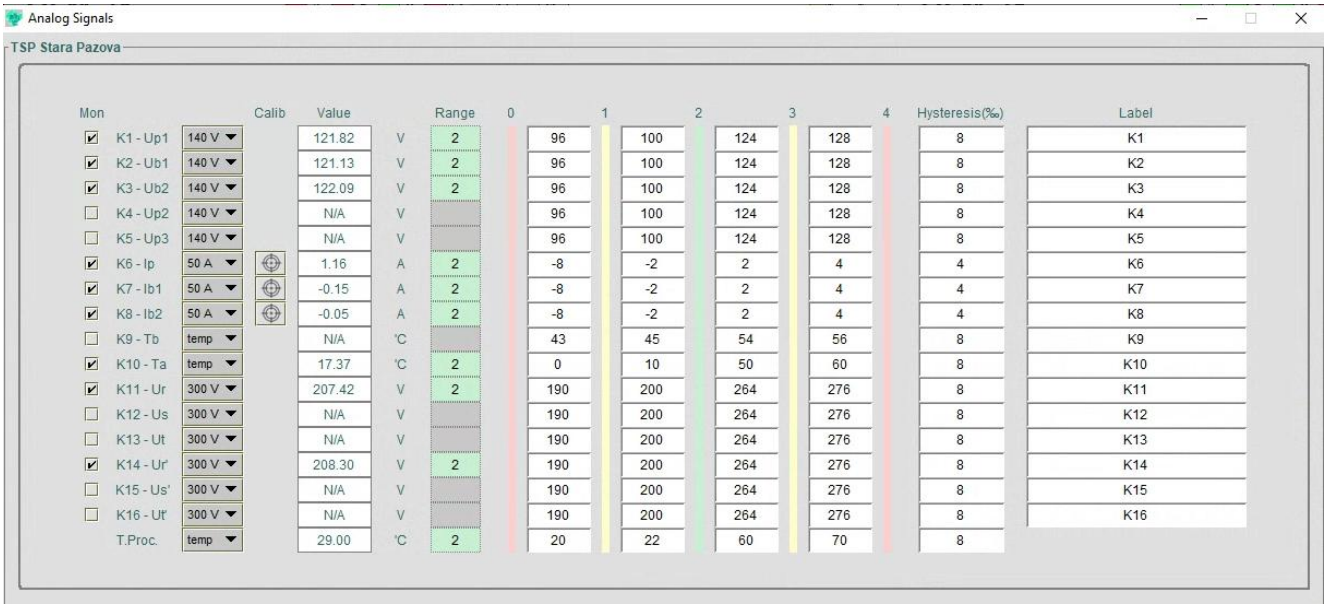
Mon			Calib	Value		Range	0	1	2	3	4	Hysteresis(‰)	Label
☑	K1 - Up1	140 V		120.59	V	2	96	100	130	136		8	K1
☑	K2 - Ub1	140 V		121.82	V	2	96	100	130	136		8	K2
☑	K3 - Ub2	140 V		122.36	V	2	96	100	130	136		8	K3
☐	K4 - Up2	140 V		N/A	V		96	100	130	136		8	K4
☐	K5 - Up3	140 V		N/A	V		96	100	130	136		8	K5
☑	K6 - Ip	50 A		0.50	A	2	-8	-2	2	4		4	K6
☑	K7 - Ib1	50 A		-1.10	A	2	-8	-2	2	4		4	K7
☑	K8 - Ib2	50 A		-0.47	A	2	-8	-2	2	4		4	K8
☐	K9 - Tb	temp		N/A	°C		43	45	54	56		8	K9
☑	K10 - Ta	temp		34.57	°C	2	0	10	50	60		8	K10
☑	K11 - Ur	300 V		219.14	V	2	204	216	264	276		8	K11
☐	K12 - Us	300 V		N/A	V		204	216	264	276		8	K12
☐	K13 - Ut	300 V		N/A	V		204	216	264	276		8	K13
☑	K14 - Ur'	300 V		218.85	V	2	204	216	264	276		8	K14
☐	K15 - Us'	300 V		N/A	V		204	216	264	276		8	K15
☐	K16 - Ut'	300 V		N/A	V		204	216	264	276		8	K16
	T.Proc.	temp		45.50	°C	2	20	22	60	70		8	

TSPn Batajnica



Mon			Calib	Value		Range	0	1	2	3	4	Hysteresis(‰)	Label
☑	K1 - Up1	140 V		121.00	V	2	96	100	124	128		8	K1
☑	K2 - Ub1	140 V		121.68	V	2	96	100	124	128		8	K2
☑	K3 - Ub2	140 V		121.68	V	2	96	100	124	128		8	K3
☐	K4 - Up2	140 V		N/A	V		96	100	124	128		8	K4
☐	K5 - Up3	140 V		N/A	V		96	100	124	128		8	K5
☑	K6 - Ip	50 A	⊕	0.97	A	2	-8	-2	2	4		4	K6
☑	K7 - Ib1	50 A	⊕	0.75	A	2	-8	-2	2	4		4	K7
☑	K8 - Ib2	50 A	⊕	-0.47	A	2	-8	-2	2	4		4	K8
☐	K9 - Tb	temp		N/A	'C		43	45	54	56		8	K9
☑	K10 - Ta	temp		20.37	'C	2	0	10	50	60		8	K10
☐	K11 - Ur	300 V		N/A	V		204	216	264	276		8	K11
☐	K12 - Us	300 V		N/A	V		204	216	264	276		8	K12
☐	K13 - Ut	300 V		N/A	V		204	216	264	276		8	K13
☐	K14 - Ur'	300 V		N/A	V		204	216	264	276		8	K14
☐	K15 - Us'	300 V		N/A	V		204	216	264	276		8	K15
☐	K16 - Ut'	300 V		N/A	V		204	216	264	276		8	K16
	T.Proc.	temp		31.50	'C	2	20	22	60	70		8	

TSP Stara Pazova



Mon			Calib	Value		Range	0	1	2	3	4	Hysteresis(‰)	Label
☑	K1 - Up1	140 V		121.82	V	2	96	100	124	128		8	K1
☑	K2 - Ub1	140 V		121.13	V	2	96	100	124	128		8	K2
☑	K3 - Ub2	140 V		122.09	V	2	96	100	124	128		8	K3
☐	K4 - Up2	140 V		N/A	V		96	100	124	128		8	K4
☐	K5 - Up3	140 V		N/A	V		96	100	124	128		8	K5
☑	K6 - Ip	50 A	⊕	1.16	A	2	-8	-2	2	4		4	K6
☑	K7 - Ib1	50 A	⊕	-0.15	A	2	-8	-2	2	4		4	K7
☑	K8 - Ib2	50 A	⊕	-0.05	A	2	-8	-2	2	4		4	K8
☐	K9 - Tb	temp		N/A	'C		43	45	54	56		8	K9
☑	K10 - Ta	temp		17.37	'C	2	0	10	50	60		8	K10
☑	K11 - Ur	300 V		207.42	V	2	190	200	264	276		8	K11
☐	K12 - Us	300 V		N/A	V		190	200	264	276		8	K12
☐	K13 - Ut	300 V		N/A	V		190	200	264	276		8	K13
☑	K14 - Ur'	300 V		208.30	V	2	190	200	264	276		8	K14
☐	K15 - Us'	300 V		N/A	V		190	200	264	276		8	K15
☐	K16 - Ut'	300 V		N/A	V		190	200	264	276		8	K16
	T.Proc.	temp		29.00	'C	2	20	22	60	70		8	

Statistika pojavljivanja alarma (broj i procenat)

Uređaj	Broj pojavljivanja alarma	Procenat pojavljivanja	Naziv alarma i broj pojavljivanja
EVP Zemun	**48**	**43%**	K6-IP-HIGH-ALRM(2) K6-IP-HIGH-WARN(26) K7-IB1-LOW-ALR(1) K7-IB1-LOW-WARN(5) K8-IB2-LOW-WARN(2) K11-UR-LOW-WARN(6) K14-URF-LOW-WARN(6)
TSP Stara Pazova	**60**	**54%**	K1-UPI-HIGH-WARN(2) K11-UR-HIGH-ALR(4) K11-UR-HIGH-WARN(21) K11-UR-LOW-WARN(1) K14-URF-HIGH-ALR(3) K14-URF-HIGH-WARN(25) K2-UB1-HIGH-WARN(2) K3-UB2-HIGH-WARN(2)
TSPn Batajnica	**3**	**3%**	K2-UB1-HIGH-WARN(1) K1-UPI-HIGH-WARN(1) K3-UB2-HIGH-WARN(1)

Napomena: Na DNU24 uređajima su zabeležene samo informacije koje su posledica detekcije periodičnog pražnjenja baterija, dopunjavanja baterija i uskog opsega definisanih vrednosti za detekciju naizmeničnog napona. Ne postoje odstupanja od redovnog rada.

IRITEL OFM-24

Statusi uređaja

Lokacija	ID uređaja	IP adresa/maska	Gateway	Serijski broj	Status uređaja
Stara Pazova	OFM-24	172.26.18.200/24	172.26.18.1	1749092	**operativan**

Povezivanje portova na uređaju

Port na uređaju	Labela	Pravac	Komentar
OFM-24 #1 (A1)	ODF OK1,2/OK1/KON_IN_36 (36)	STP-NPZ	
OFM-24 #2 (A2)	ODF OK1,2/OK2/KON_IN_36 (12)	STP-NPZ	
OFM-24 #3 (A3)	ODF OK3...		Planirano za OK3
OFM-24 #4 (A4)			slobodno
OFM-24 #5 (B1)	ODF OK1,2/OK1/KON_IN_48 (48)	STP-ZEM-BG	
OFM-24 #6 (B2)	ODF OK1,2/OK2/KON_IN_92 (72)	STP-ZEM-BG	
OFM-24 #7 (B3)	ODF OK3...		Planirano za OK3
OFM-24 #8 (B4)			slobodno
OFM-24 #9 (C1)	ODF OK1,2/OK1/KON_OUT_36 (36)	STP-INĐ-BEŠ	
OFM-24 #10 (C2)	ODF OK1,2/OK2/KON_OUT_36 (36)	STP-INĐ-BEŠ	
OFM-24 #11 (C3)	ODF OK3...		Planirano za OK3
OFM-24 #12 (C4)			slobodno
OFM-24 #13 (D1)	ODF OK1,2/OK1/KON_ OUT_48 (48)	STP-INĐ-NS	
OFM-24 #14 (D2)	ODF OK1,2/OK2/KON_ OUT_96 (96)	STP-INĐ-NS	
OFM-24 #15 (D3)	ODF OK3...		Planirano za OK3
OFM-24 #16 (D4)			slobodno
OFM-24 #17 (E1)			slobodno
OFM-24 #18 (E2)			slobodno
OFM-24 #19 (E3)			slobodno
OFM-24 #20 (E4)			slobodno
OFM-24 #21 (F1)			slobodno
OFM-24 #22 (F2)			slobodno
OFM-24 #23 (F3)			slobodno
OFM-24 #24 (F4)			slobodno

Povezivanje portova za OK1 i OK2 izvršeno OK 20m SC/APC – E2000 (8 kom)

Povezivanje portova ka OK3 kablići razvučeni do razdelinka, ali nisu povezani na portove na razdelniku.

Očitana merenja (14.01.2025.)

OFM-24 OTDR report port#1 STP-NPZ
ODF OK1,2/OK1/KON_IN_36 (36)

Datum: 14.01.2025.
Vreme: 11:44:27
Port: 1 (A1)
Lokacija uređaja: Stara Pazova
Korisnik: Železnica Srbije
merenja na OK1, konektor 36,
pravac: Stara Pazova – Nova Pazova

Parametri

Wavelength [nm]	1650		Index	1,468900
Pulse Width [ns]	10		Acquisition time [s]	10
Fiber	Dark		Range [km]	10

Rezultat

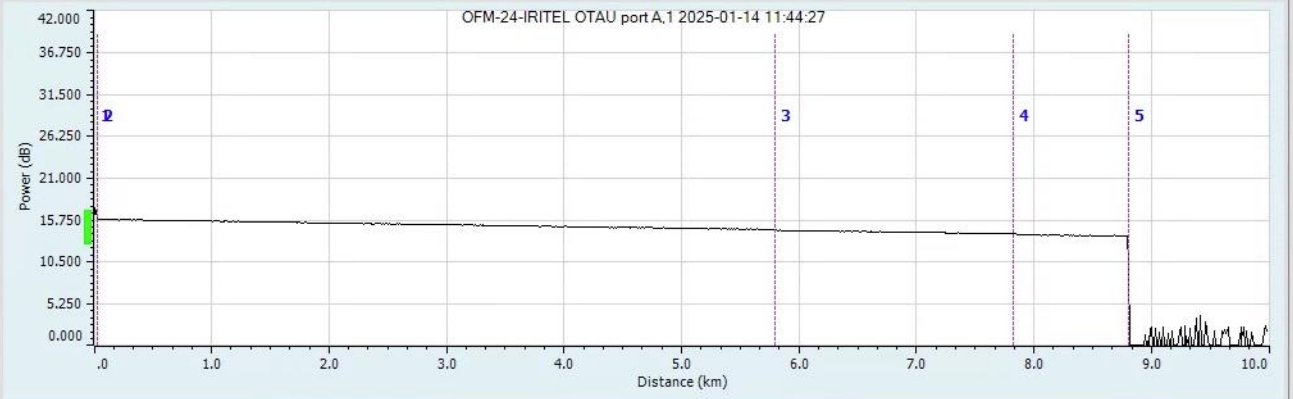
Total Loss [dB]	2,925		Average Loss [dB/km]	0,322
Total Length [m]	8804,71			
Number of events	4			

Grafik

OTDR Graph, device: 172.26.18.200, port: 1, measurement 2025-01-14 11:44:27

Results

Results graph



Zoom start: 0 | Zoom | Zoom out | Save trace

Zoom stop: 1

Results table

Number	Type	Type descr.	Position [km]	Length [km]	Curve Level [dB]	Loss [dB]	Attenuation [db/...	Reflection [dB]	Reflective Peak [...	Cumulative Loss...
1		Grouped Event	0.000	0.005	16.490	-	-	-66.878	19.564	0.000
1.1		Reflective Event	0.000	0.001	-	-	-	-73.125	17.693	0.000
1.2		Reflective Event	0.001	0.004	-	-	-	-66.878	19.564	0.000
		Optical Span	0.000	0.022	-	0.038	1.705	-	-	0.038
2		Reflective Event	0.022	0.004	16.459	0.620	-	-62.363	21.445	0.651
		Optical Span	0.022	5.777	-	1.285	0.222	-	-	1.936
3		Negative Non-R...	5.799	0.011	14.560	0.079	-	-	14.611	2.009
		Optical Span	5.799	2.026	-	0.444	0.219	-	-	2.453
4		Negative Non-R...	7.825	0.013	14.037	0.116	-	-	14.140	2.569
		Optical Span	7.825	0.978	-	0.175	0.179	-	-	2.745
5		Reflective Event	8.803	0.006	13.745	-	-	-58.197	20.648	2.745

Test properties

Auto settings: Yes | Splice loss threshold (dB): 0.02 | RBS (dB/ns): -82.82

Result properties

Actual range (km): 10.0 | Actual pulse (ns): 10 | Actual duration (s): 15

Maximum injection (dB): 18.196 | Type:

OFM-24 OTDR report port#2 STP-NPZ
ODF OK1,2/OK2/KON_IN_36 (12)

Datum: 14.01.2025.
Vreme: 11:44:53
Port: 2 (A2)
Lokacija uređaja: Stara Pazova
Korisnik: Železnica Srbije
merenja na OK2, konektor 36,
pravac: Stara Pazova – Nova Pazova

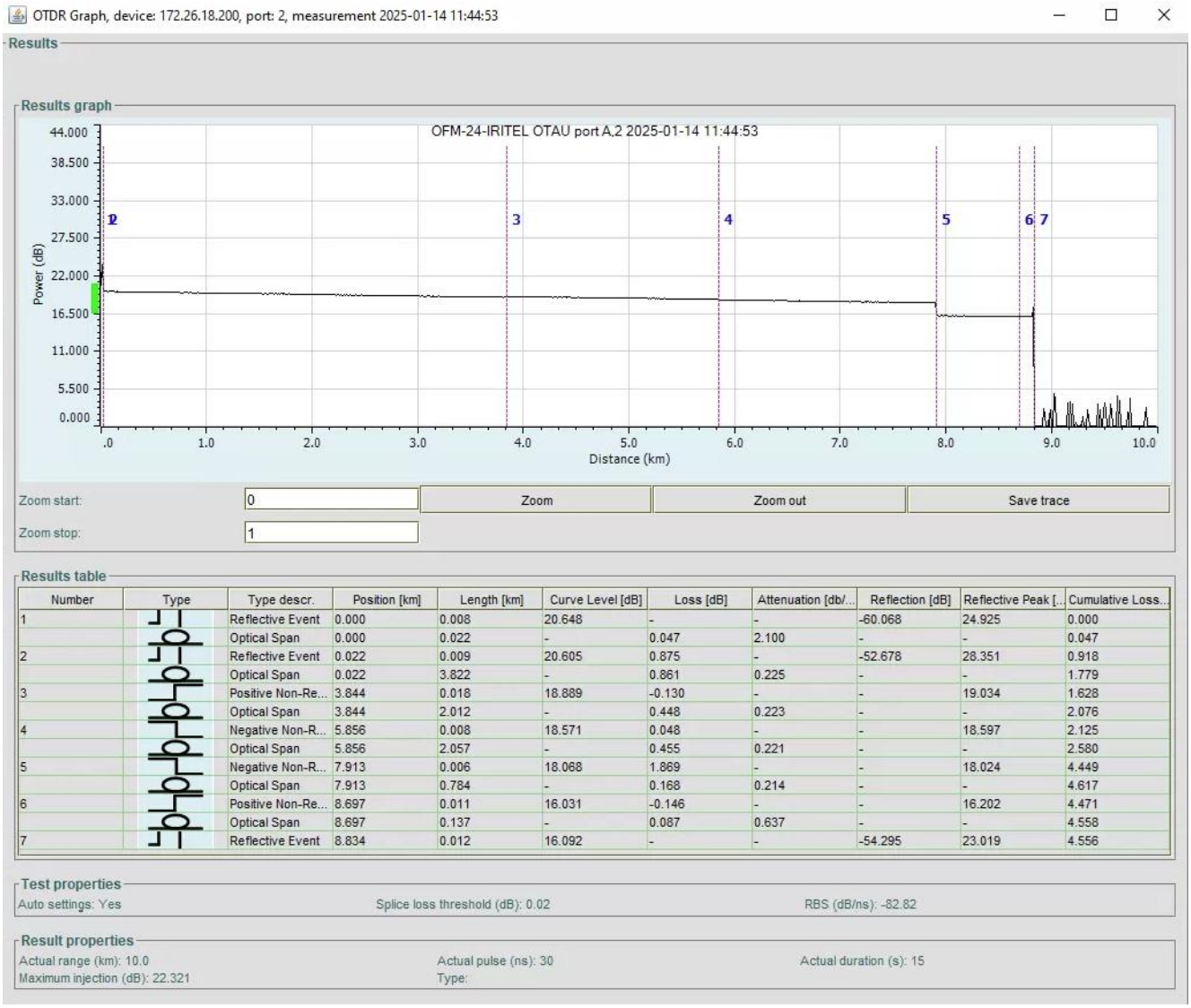
Parametri

Wavelength [nm]	1650		Index	1,468900
Pulse Width [ns]	30		Acquisition time [s]	10
Fiber	Dark		Range [km]	10

Rezultat

Total Loss [dB]	4,455		Average Loss [dB/km]	0,504
Total Length [m]	8835,32			
Number of events	7			

Grafik



Number	Type	Type descr.	Position [km]	Length [km]	Curve Level [dB]	Loss [dB]	Attenuation [db/...	Reflection [dB]	Reflective Peak [...	Cumulative Loss...
1		Reflective Event	0.000	0.008	20.648	-	-	-60.068	24.925	0.000
		Optical Span	0.000	0.022	-	0.047	2.100	-	-	0.047
2		Reflective Event	0.022	0.009	20.605	0.875	-	-52.678	28.351	0.918
		Optical Span	0.022	3.822	-	0.861	0.225	-	-	1.779
3		Positive Non-Re...	3.844	0.018	18.889	-0.130	-	-	19.034	1.628
		Optical Span	3.844	2.012	-	0.448	0.223	-	-	2.076
4		Negative Non-R...	5.856	0.008	18.571	0.048	-	-	18.597	2.125
		Optical Span	5.856	2.057	-	0.455	0.221	-	-	2.580
5		Negative Non-R...	7.913	0.006	18.068	1.869	-	-	18.024	4.449
		Optical Span	7.913	0.784	-	0.168	0.214	-	-	4.617
6		Positive Non-Re...	8.697	0.011	16.031	-0.146	-	-	16.202	4.471
		Optical Span	8.697	0.137	-	0.087	0.637	-	-	4.558
7		Reflective Event	8.834	0.012	16.092	-	-	-54.295	23.019	4.556

OFM-24 OTDR report port#5 STP-ZEM-BG
ODF OK1,2/OK1/KON_IN_48 (48)

Datum: 14.01.2025.
Vreme: 11:45:37
Port: 5 (B1)
Lokacija uređaja: Stara Pazova
Korisnik: Železnica Srbije
merenja na OK2, konektor 48,
pravac: Stara Pazova – Zemun - Beograd

Parametri

Wavelength [nm]	1650		Index	1,468900
Pulse Width [ns]	275		Acquisition time [s]	10
Fiber	Dark		Range [km]	45

Rezultat

Total Loss [dB]	13,182		Average Loss [dB/km]	0,36
Total Length [m]	36831			
Number of events	14			

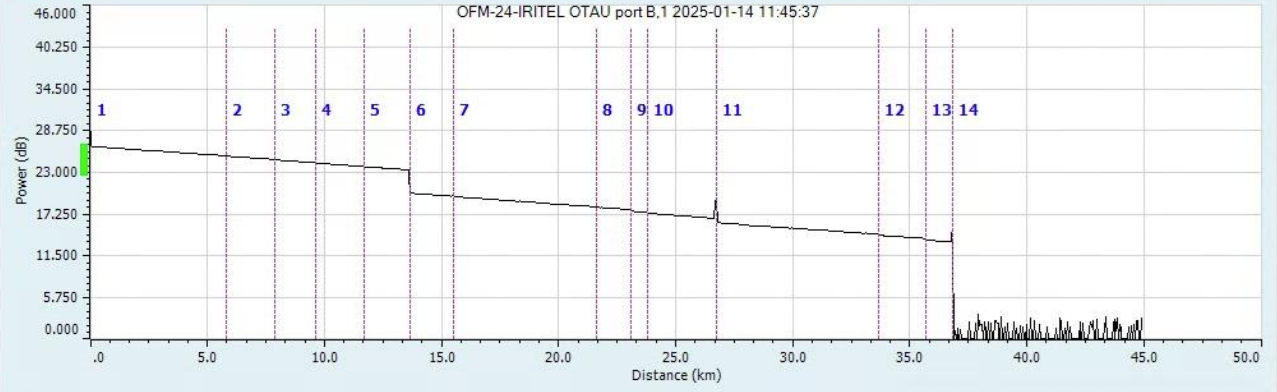
Poredeći sa prošlomesečnim izveštajem, može se uočiti da je ukupna dužina trase veća (i to za oko 10 km). Razlog je u tome što je izvršeno prespajanje u stanici Zemun Postavnica.

Grafik

OTDR Graph, device: 172.26.18.200, port: 5, measurement 2025-01-14 11:45:37

Results

Results graph



Zoom start: 0 | Zoom | Zoom out | Save trace

Zoom stop: 1

Results table

Number	Type	Type descr.	Position [km]	Length [km]	Curve Level [dB]	Loss [dB]	Attenuation [db/...	Reflection [dB]	Reflective Peak ...	Cumulative Los...
1		Reflective Event	0.000	0.061	26.605	-	-	-53.872	29.537	0.000
		Optical Span	0.000	5.806	-	1.312	0.226	-	-	1.312
2		Negative Non-R...	5.806	0.046	25.291	0.044	-	-	25.306	1.358
		Optical Span	5.806	2.051	-	0.444	0.216	-	-	1.802
3		Negative Non-R...	7.858	0.051	24.803	0.075	-	-	24.813	1.877
		Optical Span	7.858	1.745	-	0.377	0.216	-	-	2.255
4		Negative Non-R...	9.603	0.054	24.351	0.069	-	-	24.354	2.324
		Optical Span	9.603	2.072	-	0.445	0.215	-	-	2.769
5		Negative Non-R...	11.674	0.054	23.837	0.056	-	-	23.856	2.824
		Optical Span	11.674	1.964	-	0.422	0.215	-	-	3.247
6		Negative Non-R...	13.639	0.041	23.359	3.220	-	-	23.375	6.467
		Optical Span	13.639	1.901	-	0.411	0.216	-	-	6.877
7		Negative Non-R...	15.539	0.059	19.728	0.068	-	-	19.758	6.946
		Optical Span	15.539	6.054	-	1.398	0.231	-	-	8.344
8		Negative Non-R...	21.593	0.051	18.260	0.043	-	-	18.245	8.389
		Optical Span	21.593	1.513	-	0.332	0.219	-	-	8.720
9		Negative Non-R...	23.106	0.048	17.885	0.219	-	-	17.882	8.940
		Optical Span	23.106	0.719	-	0.216	0.300	-	-	9.156
10		Negative Non-R...	23.825	0.054	17.452	0.074	-	-	17.463	9.228
		Optical Span	23.825	2.906	-	0.725	0.250	-	-	9.953
11		Reflective Event	26.731	0.054	16.651	0.599	-	-44.277	23.807	10.554
		Optical Span	26.731	6.926	-	1.572	0.227	-	-	12.126
12		Negative Non-R...	33.658	0.043	14.485	0.172	-	-	14.469	12.292
		Optical Span	33.658	2.056	-	0.434	0.211	-	-	12.726
13		Negative Non-R...	35.714	0.046	13.880	0.224	-	-	13.913	12.950
		Optical Span	35.714	1.117	-	0.230	0.206	-	-	13.180
14		Reflective Event	36.831	0.061	13.425	-	-	-46.202	19.663	13.181

Test properties

Auto settings: Yes | Splice loss threshold (dB): 0.02 | RBS (dB/ns): -82.82

Result properties

Actual range (km): 45.0 | Actual pulse (ns): 275 | Actual duration (s): 15

Maximum injection (dB): 28.872 | Type:

OFM-24 OTDR report port#6 STP-ZEM-BG
ODF OK1,2/OK2/KON_IN_92 (72)

Datum: 14.01.2025.
Vreme: 11:46:03
Port: 6 (B2)
Lokacija uređaja: Stara Pazova
Korisnik: Železnica Srbije
merenja na OK2, konektor 92,
pravac: Stara Pazova – Zemun - Beograd

Parametri

Wavelength [nm]	1650		Index	1,468900
Pulse Width [ns]	100		Acquisition time [s]	10
Fiber	Dark		Range [km]	45

Rezultat

Total Loss [dB]	11,071		Average Loss [dB/km]	0,301
Total Length [m]	36810,75			
Number of events	12			

Grafik

OTDR Graph, device: 172.26.18.200, port: 6, measurement 2025-01-14 11:46:03

Results

Results graph

Zoom start: 0 | Zoom | Zoom out | Save trace

Zoom stop: 1

Results table

Number	Type	Type descr.	Position [km]	Length [km]	Curve Level [dB]	Loss [dB]	Attenuation [db/...	Reflection [dB]	Reflective Peak ...	Cumulative Los...
1		Grouped Event	0.000	0.054	24.738	-	-	-53.312	29.598	0.000
1.1		Reflective Event	0.000	0.02	-	-	-	-61.413	26.544	0.000
1.2		Reflective Event	0.020	0.033	-	-	-	-53.312	29.598	0.000
		Optical Span	0.000	1.888	-	0.404	0.214	-	-	0.404
2		Negative Non-R...	1.888	0.043	24.334	0.074	-	-	24.321	0.478
		Optical Span	1.888	3.998	-	0.934	0.234	-	-	1.411
3		Negative Non-R...	5.886	0.033	23.328	0.025	-	-	23.348	1.436
		Optical Span	5.886	3.85	-	0.875	0.227	-	-	2.311
4		Negative Non-R...	9.735	0.043	22.427	0.059	-	-	22.441	2.371
		Optical Span	9.735	2.0	-	0.429	0.215	-	-	2.800
5		Negative Non-R...	11.735	0.033	21.938	0.096	-	-	21.974	2.896
		Optical Span	11.735	5.852	-	1.281	0.219	-	-	4.177
6		Negative Non-R...	17.588	0.023	20.561	0.068	-	-	20.558	4.246
		Optical Span	17.588	4.11	-	0.957	0.233	-	-	5.202
7		Negative Non-R...	21.698	0.031	19.536	0.104	-	-	19.558	5.306
		Optical Span	21.698	1.947	-	0.419	0.215	-	-	5.724
8		Negative Non-R...	23.644	0.026	19.014	0.191	-	-	19.001	5.916
		Optical Span	23.644	2.949	-	0.650	0.220	-	-	6.566
9		Reflective Event	26.593	0.046	18.172	0.915	-	-42.147	28.387	7.481
		Optical Span	26.593	0.964	-	0.218	0.226	-	-	7.699
10		Negative Non-R...	27.558	0.043	17.040	0.078	-	-	17.056	7.776
		Optical Span	27.558	4.059	-	0.893	0.220	-	-	8.669
11		Negative Non-R...	31.617	0.031	16.069	0.026	-	-	16.076	8.695
		Optical Span	31.617	5.184	-	1.263	0.244	-	-	9.958
12		Reflective Event	36.801	0.038	14.779	-	-	-56.622	18.231	9.959

Test properties

Auto settings: Yes | Splice loss threshold (dB): 0.02 | RBS (dB/ns): -82.82

Result properties

Actual range (km): 45.0 | Actual pulse (ns): 100 | Actual duration (s): 15

Maximum injection (dB): 26.785 | Type:

OFM-24 OTDR report port#9 STP-INĐ-BEŠ
ODF OK1,2/OK1/KON_OUT_36 (36)

Datum: 14.01.2025.
Vreme: 11:46:36
Port: 9 (C1)
Lokacija uređaja: Stara Pazova
Korisnik: Železnica Srbije
merenja na OK1, konektor 36,
pravac: Stara Pazova – Inđija - Beška

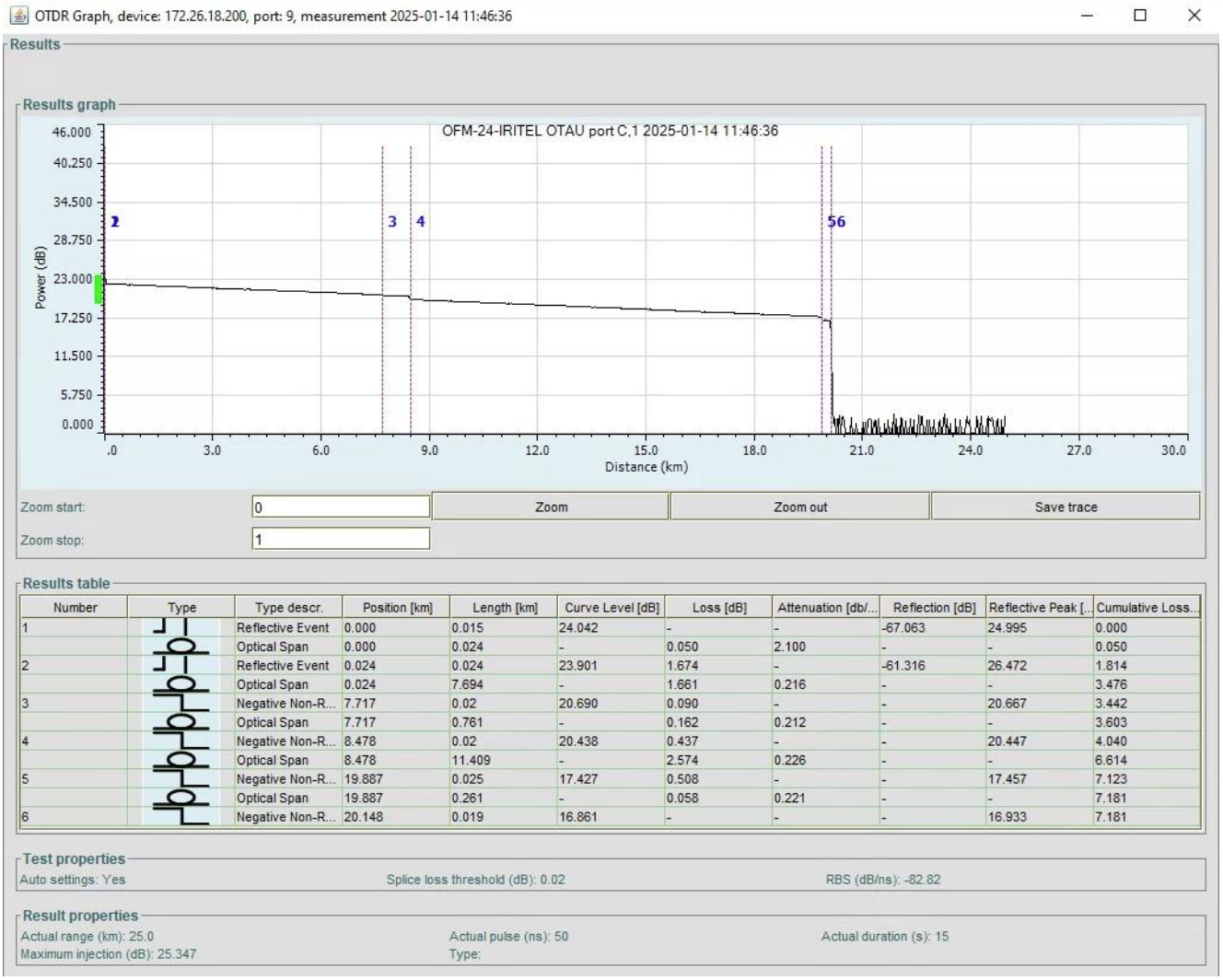
Parametri

Wavelength [nm]	1650		Index	1,468900
Pulse Width [ns]	50		Acquisition time [s]	10
Fiber	Dark		Range [km]	25

Rezultat

Total Loss [dB]	7,730		Average Loss [dB/km]	0,384
Total Length [m]	20149,74			
Number of events	6			

Grafik



Number	Type	Type descr.	Position [km]	Length [km]	Curve Level [dB]	Loss [dB]	Attenuation [db/...	Reflection [dB]	Reflective Peak [...	Cumulative Loss...
1		Reflective Event	0.000	0.015	24.042	-	-	-67.063	24.995	0.000
		Optical Span	0.000	0.024	-	0.050	2.100	-	-	0.050
2		Reflective Event	0.024	0.024	23.901	1.674	-	-61.316	26.472	1.814
		Optical Span	0.024	7.694	-	1.661	0.216	-	-	3.476
3		Negative Non-R...	7.717	0.02	20.690	0.090	-	-	20.667	3.442
		Optical Span	7.717	0.761	-	0.162	0.212	-	-	3.603
4		Negative Non-R...	8.478	0.02	20.438	0.437	-	-	20.447	4.040
		Optical Span	8.478	11.409	-	2.574	0.226	-	-	6.614
5		Negative Non-R...	19.887	0.025	17.427	0.508	-	-	17.457	7.123
		Optical Span	19.887	0.261	-	0.058	0.221	-	-	7.181
6		Negative Non-R...	20.148	0.019	16.861	-	-	-	16.933	7.181

OFM-24 OTDR report port#10 STP-INĐ-BEŠ
ODF OK1,2/OK2/KON_IN_36 (36)

Datum: 14.01.2025.
Vreme: 11:47:09
Port: 10 (C2)
Lokacija uređaja: Stara Pazova
Korisnik: Železnica Srbije
merenja na OK2, konektor 36,
pravac: Stara Pazova – Inđija - Beška

Parametri

Wavelength [nm]	1650		Index	1,468900
Pulse Width [ns]	30		Acquisition time [s]	10
Fiber	Dark		Range [km]	15

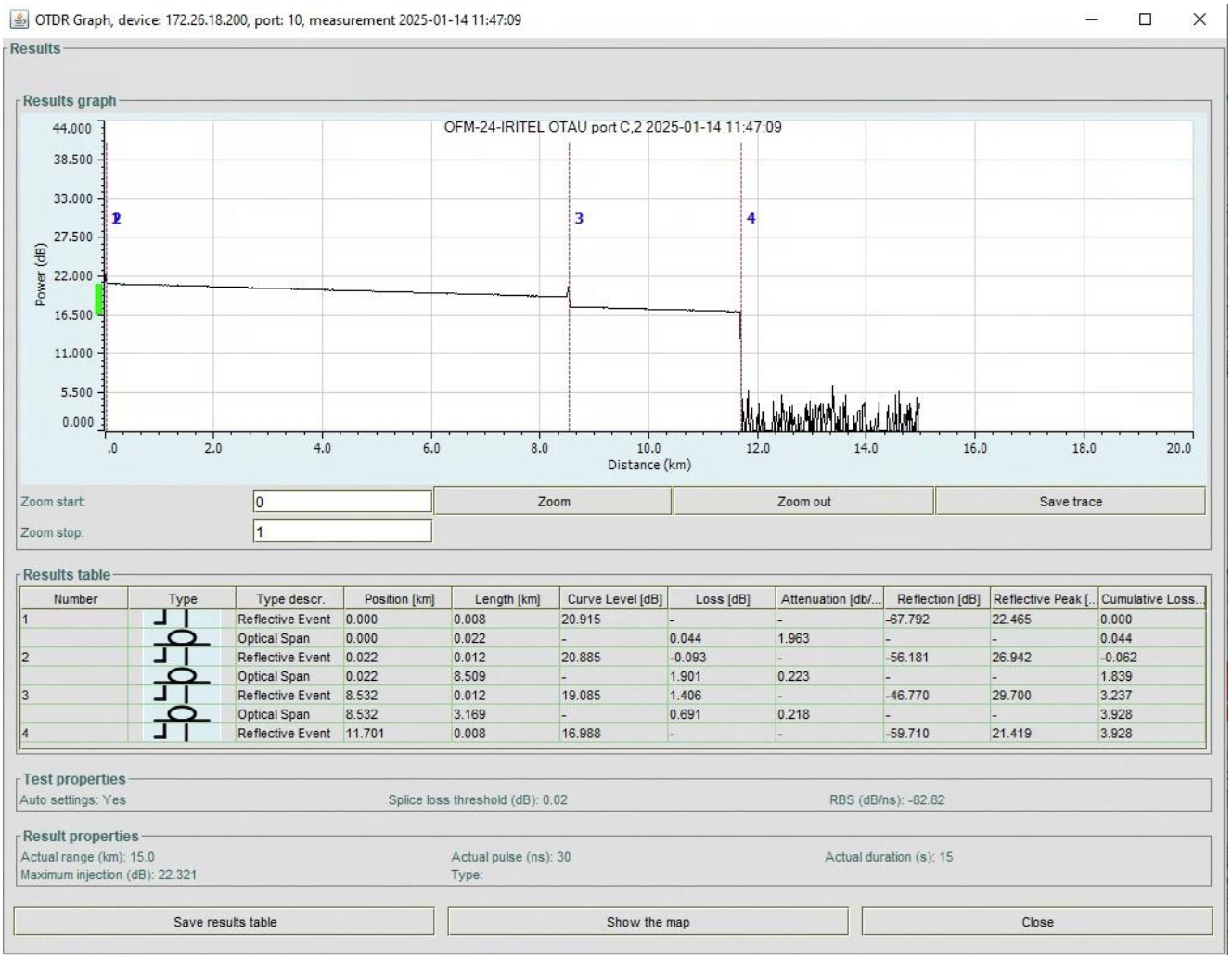
Rezultat

Total Loss [dB]	3,928		Average Loss [dB/km]	0,336
Total Length [m]	11701			
Number of events	4			

Komentar

Ukupna dužina trase je manja nego očekivana, najverovatnije zato što nije izvršeno prespajanje u Inđiji.

Grafik



Number	Type	Type descr.	Position [km]	Length [km]	Curve Level [dB]	Loss [dB]	Attenuation [db/...	Reflection [dB]	Reflective Peak [...	Cumulative Loss...
1		Reflective Event	0.000	0.008	20.915	-	-	-67.792	22.465	0.000
		Optical Span	0.000	0.022	-	0.044	1.963	-	-	0.044
2		Reflective Event	0.022	0.012	20.885	-0.093	-	-56.181	26.942	-0.062
		Optical Span	0.022	8.509	-	1.901	0.223	-	-	1.839
3		Reflective Event	8.532	0.012	19.085	1.406	-	-46.770	29.700	3.237
		Optical Span	8.532	3.169	-	0.691	0.218	-	-	3.928
4		Reflective Event	11.701	0.008	16.988	-	-	-59.710	21.419	3.928

OFM-24 OTDR report port#13 STP-INĐ-NS
ODF OK1,2/OK1/KON_IN_48 (48)

Datum: 14.01.2025.
Vreme: 11:47:42
Port: 13 (D1)
Lokacija uređaja: Stara Pazova
Korisnik: Železnica Srbije
merenja na OK2, konektor 48,
pravac: Stara Pazova – Inđija - Novi Sad

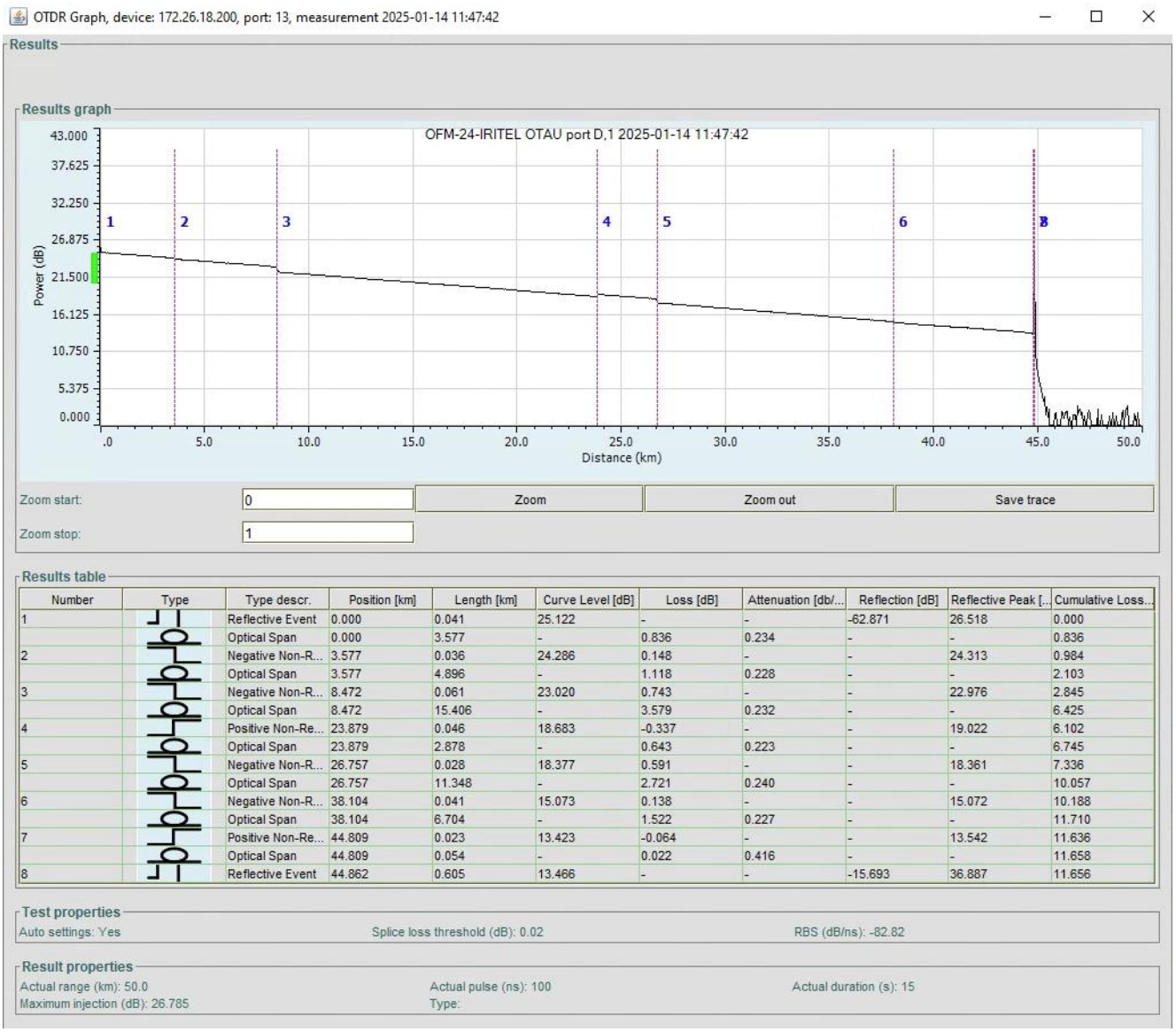
Parametri

Wavelength [nm]	1650		Index	1,468900
Pulse Width [ns]	100		Acquisition time [s]	10
Fiber	Dark		Range [km]	50

Rezultat

Total Loss [dB]	11,656		Average Loss [dB/km]	0,260
Total Length [m]	44862			
Number of events	8			

Grafik



Number	Type	Type descr.	Position [km]	Length [km]	Curve Level [dB]	Loss [dB]	Attenuation [db/...	Reflection [dB]	Reflective Peak [..	Cumulative Loss...
1		Reflective Event	0.000	0.041	25.122	-	-	-62.871	26.518	0.000
		Optical Span	0.000	3.577	-	0.836	0.234	-	-	0.836
2		Negative Non-R...	3.577	0.036	24.286	0.148	-	-	24.313	0.984
		Optical Span	3.577	4.896	-	1.118	0.228	-	-	2.103
3		Negative Non-R...	8.472	0.061	23.020	0.743	-	-	22.976	2.845
		Optical Span	8.472	15.406	-	3.579	0.232	-	-	6.425
4		Positive Non-Re...	23.879	0.046	18.683	-0.337	-	-	19.022	6.102
		Optical Span	23.879	2.878	-	0.643	0.223	-	-	6.745
5		Negative Non-R...	26.757	0.028	18.377	0.591	-	-	18.361	7.336
		Optical Span	26.757	11.348	-	2.721	0.240	-	-	10.057
6		Negative Non-R...	38.104	0.041	15.073	0.138	-	-	15.072	10.188
		Optical Span	38.104	6.704	-	1.522	0.227	-	-	11.710
7		Positive Non-Re...	44.809	0.023	13.423	-0.064	-	-	13.542	11.636
		Optical Span	44.809	0.054	-	0.022	0.416	-	-	11.658
8		Reflective Event	44.862	0.605	13.466	-	-	-15.693	36.887	11.656

OFM-24 OTDR report port#14 STP-NPZ
ODF OK1,2/OK2/KON_IN_96 (96)

Datum: 14.01.2025.
Vreme: 11:48:19
Port: 14 (D2)
Lokacija uređaja: Stara Pazova
Korisnik: Železnica Srbije
merenja na OK2, konektor 96,
pravac: Stara Pazova – Inđija - Novi Sad

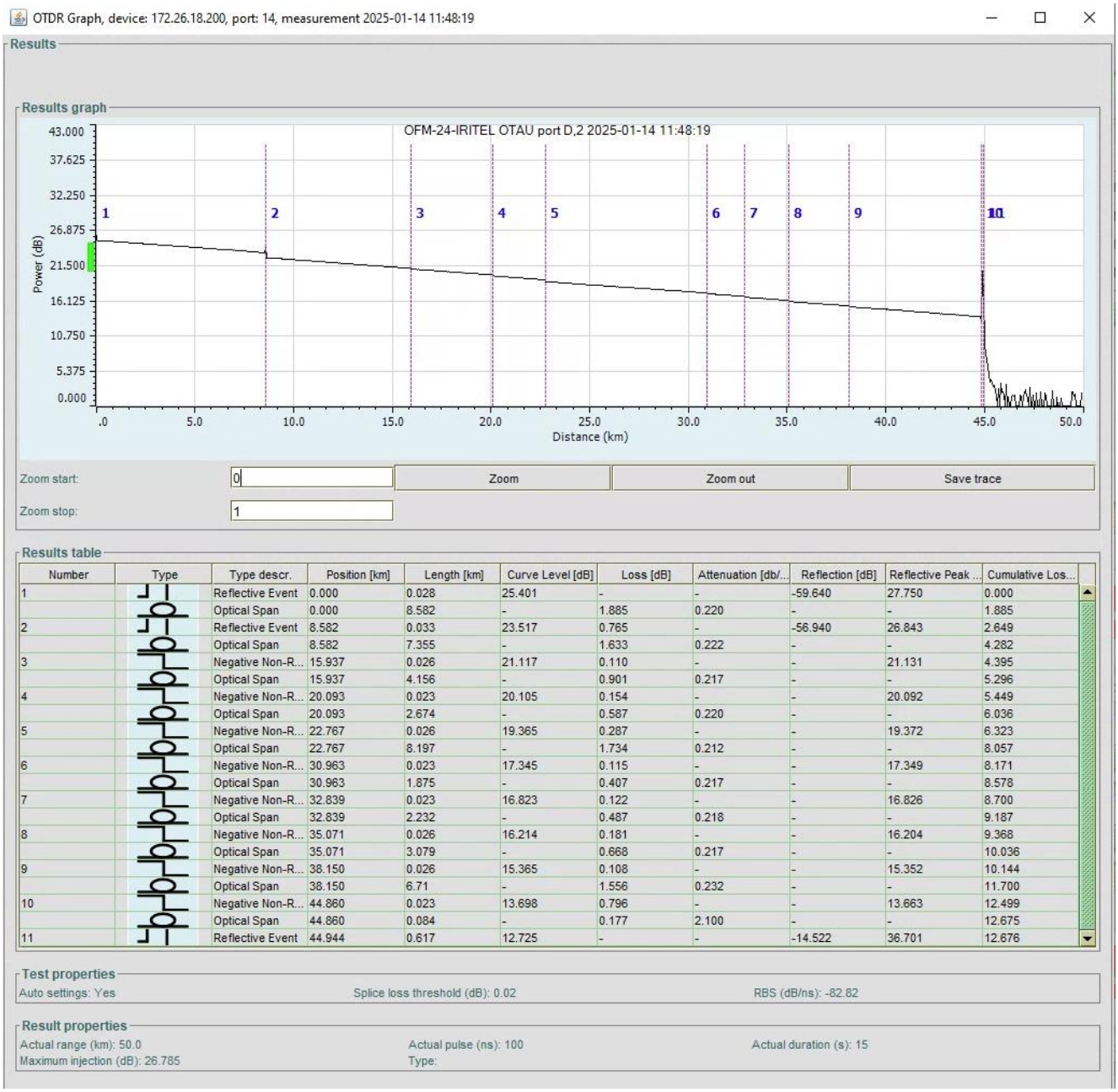
Parametri

Wavelength [nm]	1650		Index	1,468900
Pulse Width [ns]	100		Acquisition time [s]	10
Fiber	Dark		Range [km]	50

Rezultat

Total Loss [dB]	12,676		Average Loss [dB/km]	0,282
Total Length [m]	44944			
Number of events	8			

Grafik



Number	Type	Type descr.	Position [km]	Length [km]	Curve Level [dB]	Loss [dB]	Attenuation [db/...	Reflection [dB]	Reflective Peak ...	Cumulative Los...
1		Reflective Event	0.000	0.028	25.401	-	-	-59.640	27.750	0.000
		Optical Span	0.000	8.582	-	1.885	0.220	-	-	1.885
2		Reflective Event	8.582	0.033	23.517	0.765	-	-56.940	26.843	2.649
		Optical Span	8.582	7.355	-	1.633	0.222	-	-	4.282
3		Negative Non-R...	15.937	0.026	21.117	0.110	-	-	21.131	4.395
		Optical Span	15.937	4.156	-	0.901	0.217	-	-	5.296
4		Negative Non-R...	20.093	0.023	20.105	0.154	-	-	20.092	5.449
		Optical Span	20.093	2.674	-	0.587	0.220	-	-	6.036
5		Negative Non-R...	22.767	0.026	19.365	0.287	-	-	19.372	6.323
		Optical Span	22.767	8.197	-	1.734	0.212	-	-	8.057
6		Negative Non-R...	30.963	0.023	17.345	0.115	-	-	17.349	8.171
		Optical Span	30.963	1.875	-	0.407	0.217	-	-	8.578
7		Negative Non-R...	32.839	0.023	16.823	0.122	-	-	16.826	8.700
		Optical Span	32.839	2.232	-	0.487	0.218	-	-	9.187
8		Negative Non-R...	35.071	0.026	16.214	0.181	-	-	16.204	9.368
		Optical Span	35.071	3.079	-	0.668	0.217	-	-	10.036
9		Negative Non-R...	38.150	0.026	15.365	0.108	-	-	15.352	10.144
		Optical Span	38.150	6.71	-	1.556	0.232	-	-	11.700
10		Negative Non-R...	44.860	0.023	13.698	0.796	-	-	13.663	12.499
		Optical Span	44.860	0.084	-	0.177	2.100	-	-	12.675
11		Reflective Event	44.944	0.617	12.725	-	-	-14.522	36.701	12.676

IRITEL OFM-24 #2

Statusi uređaja

Lokacija	ID uređaja	IP adresa/maska	Gateway	Serijski broj	Status uređaja
Stara Pazova	OFM-24	172.26.18.201/24	172.26.18.1	1749092	**operativan**

Povezivanje portova na uređaju

Port na uređaju	Labela	Pravac	Komentar
OFM-24 #1 (A1)	ODF OK1,2/OK1/KON_IN_47 (47)	STP-ZEM-BG	
OFM-24 #2 (A2)			slobodno
OFM-24 #3 (A3)			slobodno
OFM-24 #4 (A4)			slobodno
OFM-24 #5 (B1)	ODF OK1,2/OK2/KON_IN_95 (71)	STP-ZEM-BG	
OFM-24 #6 (B2)			slobodno
OFM-24 #7 (B3)			slobodno
OFM-24 #8 (B4)			slobodno
OFM-24 #9 (C1)	ODF OK1,2/OK1/KON_OUT_47 (47)	STP-INĐ-NS	
OFM-24 #10 (C2)			slobodno
OFM-24 #11 (C3)			slobodno
OFM-24 #12 (C4)			slobodno
OFM-24 #13 (D1)	ODF OK1,2/OK2/KON_ OUT_95 (95)	STP-INĐ-NS	
OFM-24 #14 (D2)			slobodno
OFM-24 #15 (D3)			slobodno
OFM-24 #16 (D4)			slobodno
OFM-24 #17 (E1)			slobodno
OFM-24 #18 (E2)			slobodno
OFM-24 #19 (E3)			slobodno
OFM-24 #20 (E4)			slobodno
OFM-24 #21 (F1)			slobodno
OFM-24 #22 (F2)			slobodno
OFM-24 #23 (F3)			slobodno
OFM-24 #24 (F4)			slobodno

Povezivanje portova za OK1 i OK2 izvršeno OK 20m SC/APC – E2000 (4 kom)

Očitana merenja (14.01.2025.)

OFM-24 #2 OTDR report port#1 STP-ZEM-BG
ODF OK1,2/OK1/KON_IN_47 (47)

Datum: 14.01.2025.
Vreme: 11:38:23
Port: 1 (A1)
Lokacija uređaja: Stara Pazova
Korisnik: Železnica Srbije
merenja na OK1, konektor 47,
pravac: Stara Pazova – Zemun – Beograd

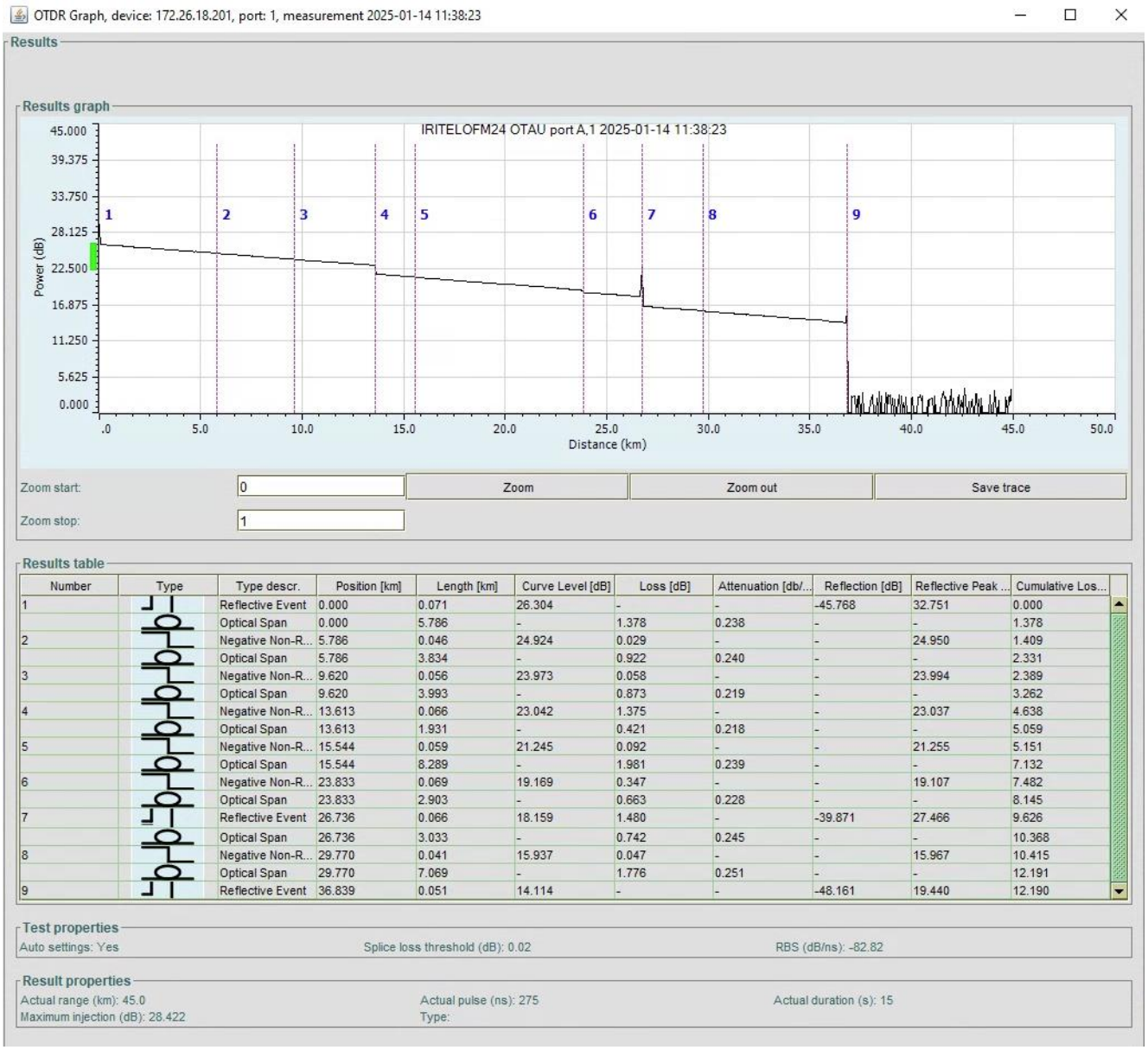
Parametri

Wavelength [nm]	1650		Index	1,468900
Pulse Width [ns]	275		Acquisition time [s]	10
Fiber	Dark		Range [km]	45

Rezultat

Total Loss [dB]	12,190		Average Loss [dB/km]	0,331
Total Length [m]	36839			
Number of events	9			

Grafik



Number	Type	Type descr.	Position [km]	Length [km]	Curve Level [dB]	Loss [dB]	Attenuation [db/...	Reflection [dB]	Reflective Peak ...	Cumulative Los...
1		Reflective Event	0.000	0.071	26.304	-	-	-45.768	32.751	0.000
		Optical Span	0.000	5.786	-	1.378	0.238	-	-	1.378
2		Negative Non-R...	5.786	0.046	24.924	0.029	-	-	24.950	1.409
		Optical Span	5.786	3.834	-	0.922	0.240	-	-	2.331
3		Negative Non-R...	9.620	0.056	23.973	0.058	-	-	23.994	2.389
		Optical Span	9.620	3.993	-	0.873	0.219	-	-	3.262
4		Negative Non-R...	13.613	0.066	23.042	1.375	-	-	23.037	4.638
		Optical Span	13.613	1.931	-	0.421	0.218	-	-	5.059
5		Negative Non-R...	15.544	0.059	21.245	0.092	-	-	21.255	5.151
		Optical Span	15.544	8.289	-	1.981	0.239	-	-	7.132
6		Negative Non-R...	23.833	0.069	19.169	0.347	-	-	19.107	7.482
		Optical Span	23.833	2.903	-	0.663	0.228	-	-	8.145
7		Reflective Event	26.736	0.066	18.159	1.480	-	-39.871	27.466	9.626
		Optical Span	26.736	3.033	-	0.742	0.245	-	-	10.368
8		Negative Non-R...	29.770	0.041	15.937	0.047	-	-	15.967	10.415
		Optical Span	29.770	7.069	-	1.776	0.251	-	-	12.191
9		Reflective Event	36.839	0.051	14.114	-	-	-48.161	19.440	12.190

OFM-24 #2 OTDR report port#5 STP-ZEM-BG
ODF OK1,2/OK2/KON_IN_95 (71)

Datum: 14.01.2025.
Vreme: 14:23:39
Port: 5 (B1)
Lokacija uređaja: Stara Pazova
Korisnik: Železnica Srbije
merenja na OK1, konektor 95,
pravac: Stara Pazova – Zemun – Beograd

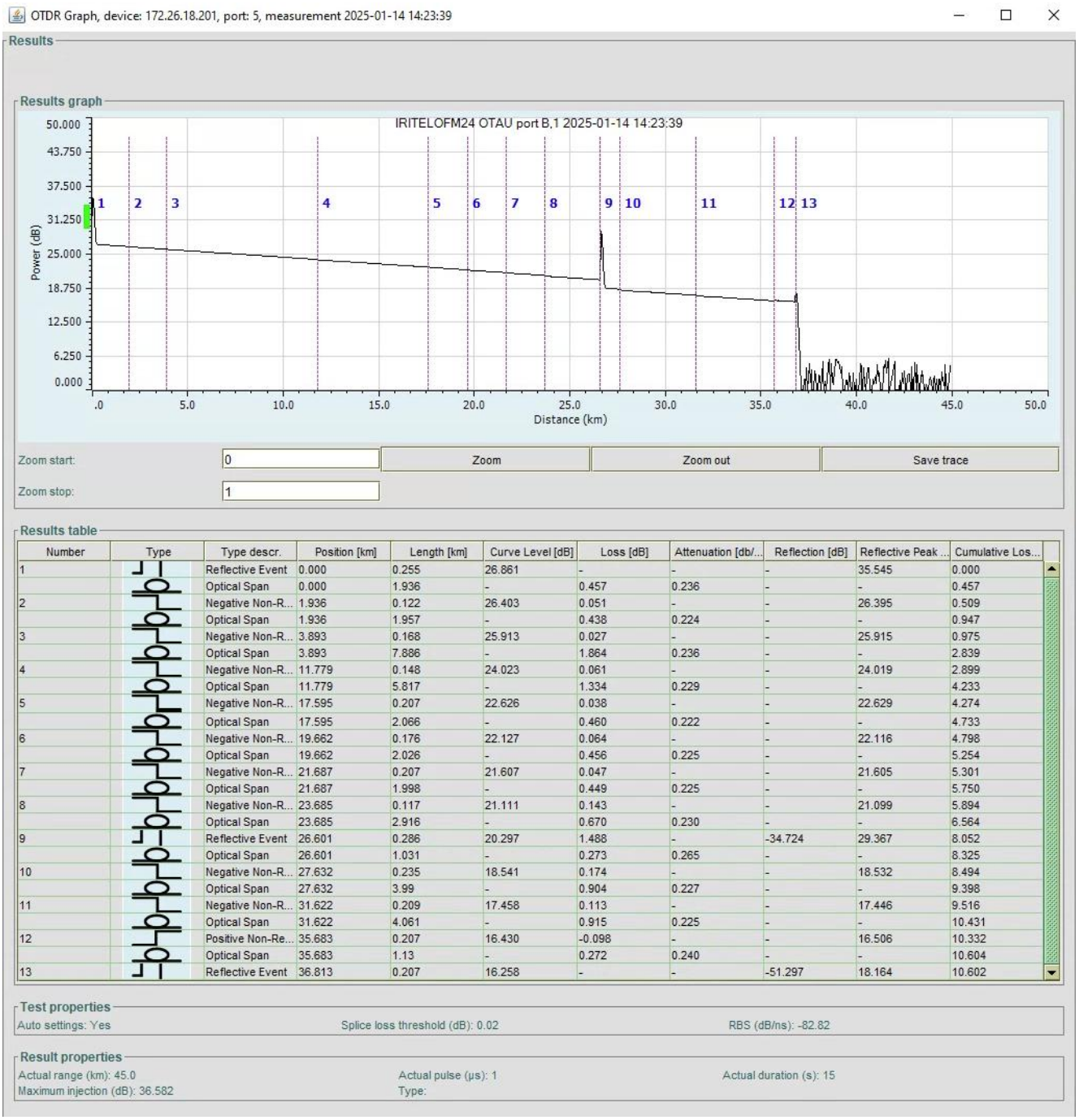
Parametri

Wavelength [nm]	1650		Index	1,468900
Pulse Width [ns]	1000		Acquisition time [s]	10
Fiber	Dark		Range [km]	45

Rezultat

Total Loss [dB]	10,602		Average Loss [dB/km]	0,288
Total Length [m]	36813			
Number of events	9			

Grafik



Number	Type	Type descr.	Position [km]	Length [km]	Curve Level [dB]	Loss [dB]	Attenuation [db/...	Reflection [dB]	Reflective Peak ...	Cumulative Los...
1		Reflective Event	0.000	0.255	26.861	-	-	-	35.545	0.000
		Optical Span	0.000	1.936	-	0.457	0.236	-	-	0.457
2		Negative Non-R...	1.936	0.122	26.403	0.051	-	-	26.395	0.509
		Optical Span	1.936	1.957	-	0.438	0.224	-	-	0.947
3		Negative Non-R...	3.893	0.168	25.913	0.027	-	-	25.915	0.975
		Optical Span	3.893	7.886	-	1.864	0.236	-	-	2.839
4		Negative Non-R...	11.779	0.148	24.023	0.061	-	-	24.019	2.899
		Optical Span	11.779	5.817	-	1.334	0.229	-	-	4.233
5		Negative Non-R...	17.595	0.207	22.626	0.038	-	-	22.629	4.274
		Optical Span	17.595	2.066	-	0.460	0.222	-	-	4.733
6		Negative Non-R...	19.662	0.176	22.127	0.064	-	-	22.116	4.798
		Optical Span	19.662	2.026	-	0.456	0.225	-	-	5.254
7		Negative Non-R...	21.687	0.207	21.607	0.047	-	-	21.605	5.301
		Optical Span	21.687	1.998	-	0.449	0.225	-	-	5.750
8		Negative Non-R...	23.685	0.117	21.111	0.143	-	-	21.099	5.894
		Optical Span	23.685	2.916	-	0.670	0.230	-	-	6.564
9		Reflective Event	26.601	0.286	20.297	1.488	-	-34.724	29.367	8.052
		Optical Span	26.601	1.031	-	0.273	0.265	-	-	8.325
10		Negative Non-R...	27.632	0.235	18.541	0.174	-	-	18.532	8.494
		Optical Span	27.632	3.99	-	0.904	0.227	-	-	9.398
11		Negative Non-R...	31.622	0.209	17.458	0.113	-	-	17.446	9.516
		Optical Span	31.622	4.061	-	0.915	0.225	-	-	10.431
12		Positive Non-Re...	35.683	0.207	16.430	-0.098	-	-	16.506	10.332
		Optical Span	35.683	1.13	-	0.272	0.240	-	-	10.604
13		Reflective Event	36.813	0.207	16.258	-	-	-51.297	18.164	10.602

OFM-24 #2 OTDR report port#9 STP-INĐ-NS
ODF OK1,2/OK1/KON_OUT_47 (47)

Datum: 14.01.2025.
Vreme: 14:24:42
Port: 9 (C1)
Lokacija uređaja: Stara Pazova
Korisnik: Železnica Srbije
merenja na OK1, konektor 47,
pravac: Stara Pazova – Inđija – Novi Sad

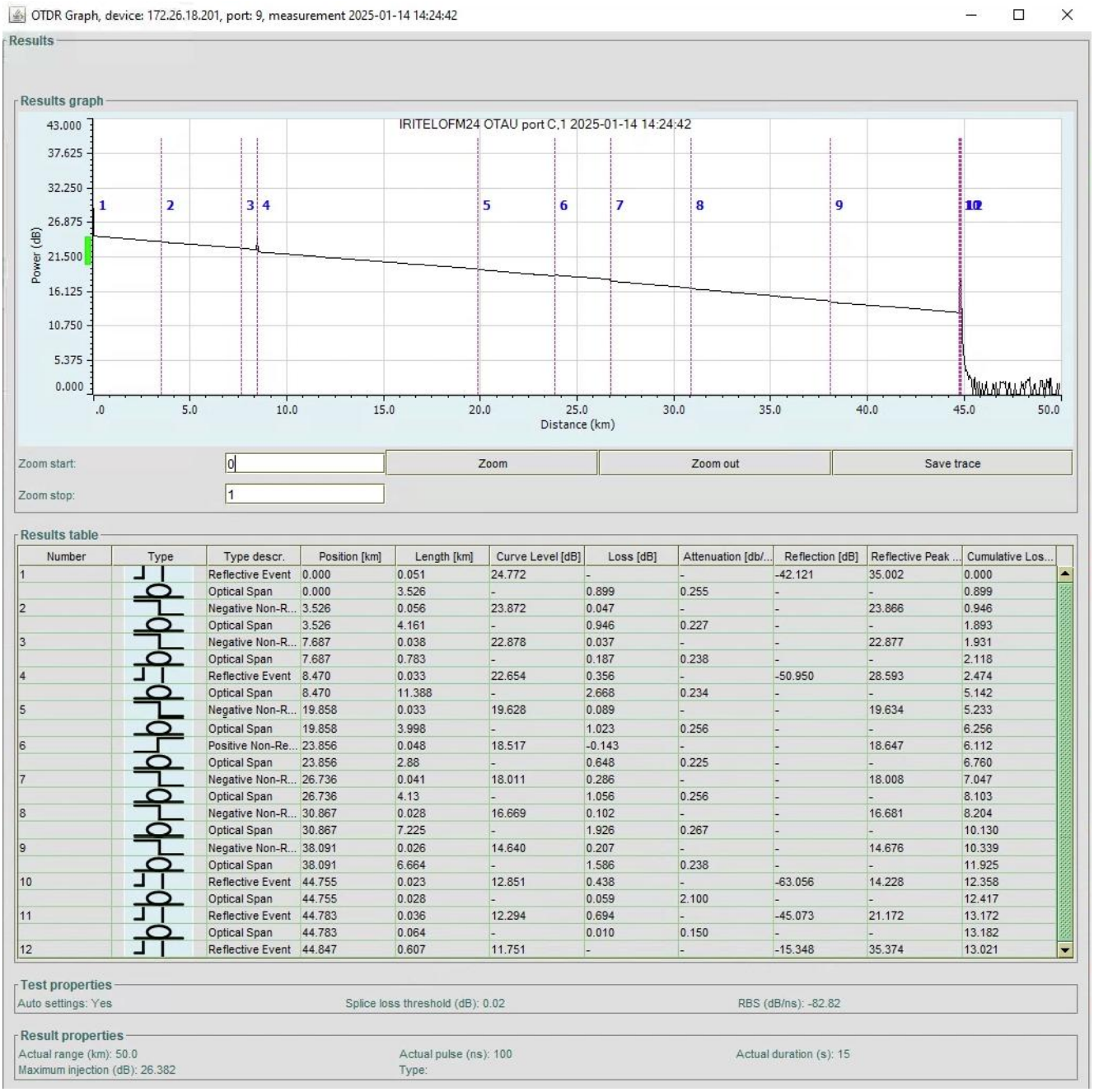
Parametri

Wavelength [nm]	1650		Index	1,468900
Pulse Width [ns]	100		Acquisition time [s]	10
Fiber	Dark		Range [km]	50

Rezultat

Total Loss [dB]	13,021		Average Loss [dB/km]	0,290
Total Length [m]	44847			
Number of events	12			

Grafik



Number	Type	Type descr.	Position [km]	Length [km]	Curve Level [dB]	Loss [dB]	Attenuation [db/...	Reflection [dB]	Reflective Peak ...	Cumulative Los...
1		Reflective Event	0.000	0.051	24.772	-	-	-42.121	35.002	0.000
		Optical Span	0.000	3.526	-	0.899	0.255	-	-	0.899
2		Negative Non-R...	3.526	0.056	23.872	0.047	-	-	23.866	0.946
		Optical Span	3.526	4.161	-	0.946	0.227	-	-	1.893
3		Negative Non-R...	7.687	0.038	22.878	0.037	-	-	22.877	1.931
		Optical Span	7.687	0.783	-	0.187	0.238	-	-	2.118
4		Reflective Event	8.470	0.033	22.654	0.356	-	-50.950	28.593	2.474
		Optical Span	8.470	11.388	-	2.668	0.234	-	-	5.142
5		Negative Non-R...	19.858	0.033	19.628	0.089	-	-	19.634	5.233
		Optical Span	19.858	3.998	-	1.023	0.256	-	-	6.256
6		Positive Non-Re...	23.856	0.048	18.517	-0.143	-	-	18.647	6.112
		Optical Span	23.856	2.88	-	0.648	0.225	-	-	6.760
7		Negative Non-R...	26.736	0.041	18.011	0.286	-	-	18.008	7.047
		Optical Span	26.736	4.13	-	1.056	0.256	-	-	8.103
8		Negative Non-R...	30.867	0.028	16.669	0.102	-	-	16.681	8.204
		Optical Span	30.867	7.225	-	1.926	0.267	-	-	10.130
9		Negative Non-R...	38.091	0.026	14.640	0.207	-	-	14.676	10.339
		Optical Span	38.091	6.664	-	1.586	0.238	-	-	11.925
10		Reflective Event	44.755	0.023	12.851	0.438	-	-63.056	14.228	12.358
		Optical Span	44.755	0.028	-	0.059	2.100	-	-	12.417
11		Reflective Event	44.783	0.036	12.294	0.694	-	-45.073	21.172	13.172
		Optical Span	44.783	0.064	-	0.010	0.150	-	-	13.182
12		Reflective Event	44.847	0.607	11.751	-	-	-15.348	35.374	13.021

OFM-24 #2 OTDR report port#13 STP-INĐ-NS
ODF OK1,2/OK2/KON_OUT_95 (95)

Datum: 14.01.2025.
Vreme: 14:26:54
Port: 13 (D1)
Lokacija uređaja: Stara Pazova
Korisnik: Železnica Srbije
merenja na OK2, konektor 95,
pravac: Stara Pazova – Inđija – Novi Sad

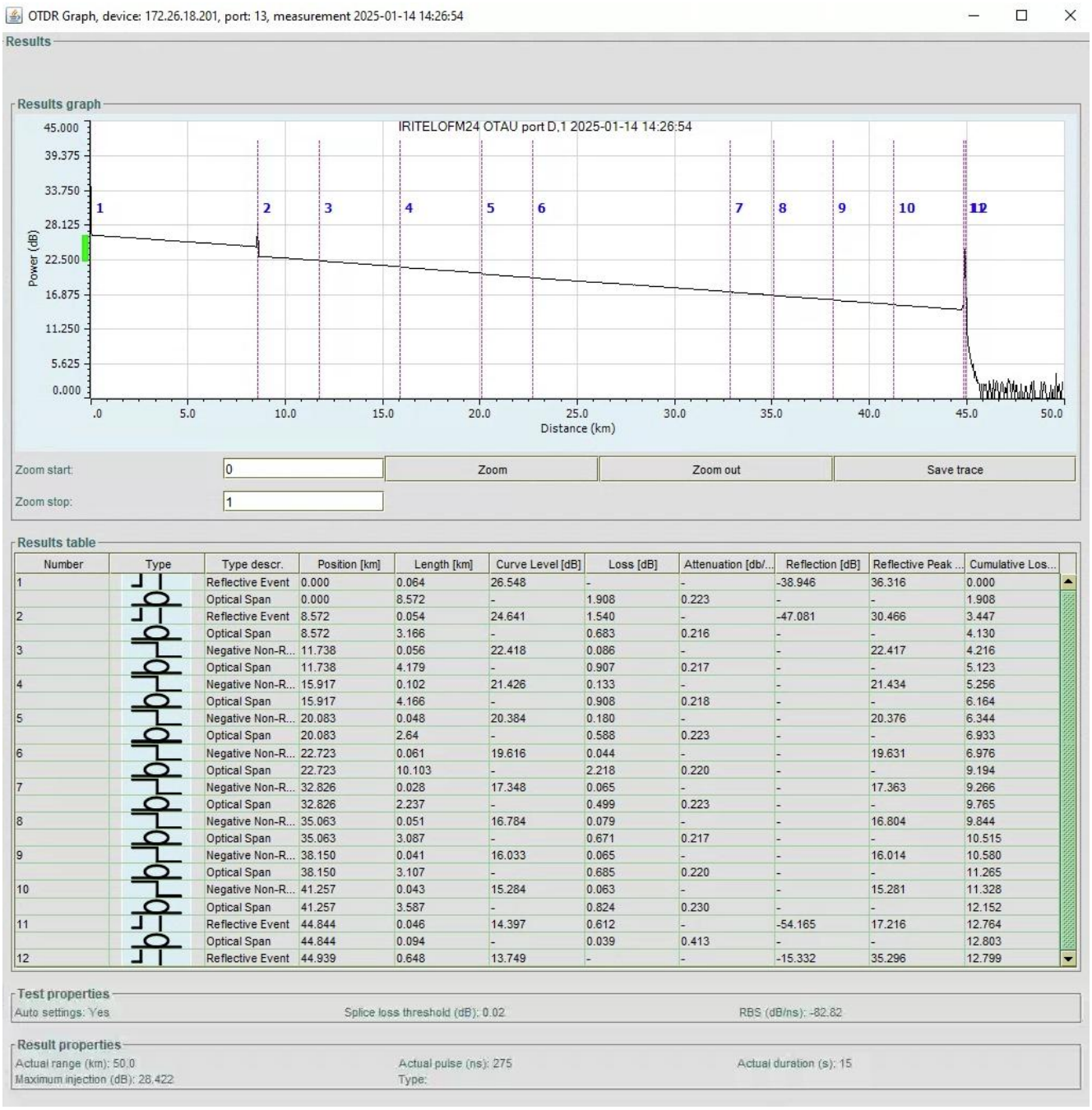
Parametri

Wavelength [nm]	1650		Index	1,468900
Pulse Width [ns]	275		Acquisition time [s]	10
Fiber	Dark		Range [km]	50

Rezultat

Total Loss [dB]	12,799		Average Loss [dB/km]	0,285
Total Length [m]	44939			
Number of events	12			

Grafik



Number	Type	Type descr.	Position [km]	Length [km]	Curve Level [dB]	Loss [dB]	Attenuation [db/...	Reflection [dB]	Reflective Peak ...	Cumulative Los...
1		Reflective Event	0.000	0.064	26.548	-	-	-38.946	36.316	0.000
		Optical Span	0.000	8.572	-	1.908	0.223	-	-	1.908
2		Reflective Event	8.572	0.054	24.641	1.540	-	-47.081	30.466	3.447
		Optical Span	8.572	3.166	-	0.683	0.216	-	-	4.130
3		Negative Non-R...	11.738	0.056	22.418	0.086	-	-	22.417	4.216
		Optical Span	11.738	4.179	-	0.907	0.217	-	-	5.123
4		Negative Non-R...	15.917	0.102	21.426	0.133	-	-	21.434	5.256
		Optical Span	15.917	4.166	-	0.908	0.218	-	-	6.164
5		Negative Non-R...	20.083	0.048	20.384	0.180	-	-	20.376	6.344
		Optical Span	20.083	2.64	-	0.588	0.223	-	-	6.933
6		Negative Non-R...	22.723	0.061	19.616	0.044	-	-	19.631	6.976
		Optical Span	22.723	10.103	-	2.218	0.220	-	-	9.194
7		Negative Non-R...	32.826	0.028	17.348	0.065	-	-	17.363	9.266
		Optical Span	32.826	2.237	-	0.499	0.223	-	-	9.765
8		Negative Non-R...	35.063	0.051	16.784	0.079	-	-	16.804	9.844
		Optical Span	35.063	3.087	-	0.671	0.217	-	-	10.515
9		Negative Non-R...	38.150	0.041	16.033	0.065	-	-	16.014	10.580
		Optical Span	38.150	3.107	-	0.685	0.220	-	-	11.265
10		Negative Non-R...	41.257	0.043	15.284	0.063	-	-	15.281	11.328
		Optical Span	41.257	3.587	-	0.824	0.230	-	-	12.152
11		Reflective Event	44.844	0.046	14.397	0.612	-	-54.165	17.216	12.764
		Optical Span	44.844	0.094	-	0.039	0.413	-	-	12.803
12		Reflective Event	44.939	0.648	13.749	-	-	-15.332	35.296	12.799

Istorija alarma

Tokom perioda od 01.12. do 31.12. oba OTDR uređaja su generisala po oko 65 000 alarma. Ispostavlja se da se na period od 2 minuta javljaju alarmi OTDR-PORT-FAILURE. Potrebno je proveriti da li su kanali adekvatno povezani na razvodnom ormaru, odnosno šta bi konkrento moglo da uzrokuje ovakvo ponašanje.